

DERWENT-ACC-NO: 1976-59879X

DERWENT-WEEK: 197632

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TITLE: Slow-acting NP and NPK fertilisers  
prodn - by mixing urea with phosphate salts and reacting  
with aldehydes

PATENT-ASSIGNEE: DI DIO P[DDIOI]

PRIORITY-DATA: 1975DD-0187846 (August 14, 1975)

PATENT-FAMILY:

PUB-NO	PAGES	MAIN-IPC	PUB-DATE	LANGUAGE
DD 120646 A	000	N/A	June 20, 1976	N/A

INT-CL (IPC): C05C009/00

ABSTRACTED-PUB-NO: DD 120646A

BASIC-ABSTRACT:

Slow-acting fertilisers are produced by reacting a mixt. of urea and an ammonium, K, Ca or Mg phosphate, and opt. a K salt, with a  $\geq 2$ C aldehyde in the presence of H<sub>2</sub>O at a pH of 2-7 and a temp. of  $< 100$  degrees C. The process gives stable, homogenous NP or NPK fertilisers without the use of a separate urea-aldehyde condensation step.

TITLE-TERMS: SLOW ACT NPK FERTILISER PRODUCE MIX UREA  
PHOSPHATE SALT REACT

DERWENT-CLASS: C04

CPI-CODES: C05-A01A; C05-B02A4; C10-A13C; C10-D01;

CHEMICAL-CODES:

Chemical Indexing M2 \*01\*

Fragmentation Code

K0 M320 M280 L431 L432 M620 M431 P113 M510 M520  
M530 M540 M782 R003 R051 R052 Q620 M416 M902

Chemical Indexing M2 \*02\*

Fragmentation Code

J6 M210 M212 M213 M214 M215 M216 M220 M221 M222  
M223 M224 M225 M226 M231 M232 M233 M260 M281 M312  
M313 M314 M315 M316 M320 J451 J471 M620 H721 M431  
M510 M520 M530 M540 M782 R003 R051 R052 Q620 M416  
M902

Chemical Indexing M2 \*03\*

Fragmentation Code

A940 C730 C108 C100 C316 C803 C806 C802 C807 C805  
C804 C801 A119 C540 C017 M431 P111 P112 M782 R003  
R051 R052 Q620 M411 M902

Chemical Indexing M2 \*04\*

Fragmentation Code

A940 C101 C108 C802 C807 C805 C804 B720 A119 C500  
B815 B819 B831 A212 A220 B115 B701 B713 M431 P111  
P112 M782 R003 R051 R052 Q620 M411 M902